

# TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

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January 23, 2007

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TO: Internal File

THRU: D. Wayne Hedberg, Permit Supervisor *DWH*

FROM: James D. Smith, Environmental Scientist *JS 01/25/07*

RE: 2006 Third Quarter Water Monitoring, PacifiCorp, Deer Creek Mine,  
C/015/0018, Task ID #2711

The Deer Creek Mine monitoring plan is described in Appendix A of Volume 9 of the MRP.

1. Were data submitted for all of the MRP required sites?

Springs	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Wells	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
UPDES	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
In-mine	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

2. Were all required parameters reported for each site?

Springs	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Wells	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

UPDES

YES ☒ NO ☐

In-mine

YES ☒ NO ☐

3. Were any irregularities found in the data?

Listed parameters were outside two standard deviations. An asterisk (\*) indicates this is not a parameter specifically required by the MRP.

Springs

YES ☒ NO ☐

Elk Spring July: water temperature;  
79-10 July: Ca and cation-anion balance;  
79-26 July: water temperature;  
79-28 July: Mg;  
79-29 July: water temperature and Ca;  
79-34 July: water temperature;  
80-46 July: water temperature;  
80-47 July: Mg;  
80-50 July: water temperature and Ca;  
82-51 July: water temperature and Ca;  
82-52 July: total Fe;  
84-56 July: Ca;  
89-60 July: flow;  
89-66 July: water temperature;  
89-67 July: water temperature;  
EM-216 July: water temperature;  
JV-34 July: flow;  
MF 213 July: water temperature and Cl;  
MFR 210 July: flow;  
RR 5 July: flow, Ca, and total hardness;  
RR 23A July: Cl;  
UJV 206 July: water temperature, flow, and TDS;  
Little Bear Spring July: water temperature, Mg, and total hardness.

Streams

YES ☒ NO ☐

HCC01 Sept: TSS and total Fe;

HCC02 Sept: TSS and total Fe;  
HCC04 Sept: TSS and total Fe;  
RCF3 Sept: field conductivity and lab conductivity\*;  
RCW4 Sept: field conductivity, lab conductivity\*, Ca, SO4, total hardness, TDS,  
and total cations\*;  
MFB Sept: field conductivity, lab conductivity\*, Ca, Na, SO4, total alkalinity\*,  
total hardness, TDS, and total cations\*.

**Wells** YES ☒ NO ☐

CCCW-1A July and August: level  
CCCW-3SU July: level  
DCWR1 Sept: total Fe

**UPDES** YES ☒ NO ☐

23604-001 Sept: pH.

**In-mine** YES ☐ NO ☒

**4. On what date does the MRP require a five-year resampling of baseline water data.**

Renewal submittal due 10/07/05, renewal due 02/07/06. Baseline analyses were performed in 2001 and will be repeated every 5 years, i.e., the next baseline analyses will be in 2006.

Baseline parameters were measured at some sites during the 1<sup>st</sup> and 2<sup>nd</sup> Qtr 2006. Most springs are monitored only in the 3<sup>rd</sup> and 4<sup>th</sup> Qtrs. For the 3<sup>rd</sup> Qtr, not every site was checked in detail to determine if analyses had been done for all baseline parameters, but spot checks indicate that baseline parameters have been determined for the 3<sup>rd</sup> Qtr also. Baseline parameters are not determined for UPDES sites.

**5. Based on your review, what further actions, if any, do you recommend?**

None.

**6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?** YES ☐ NO ☒

**7. Follow-up from last quarter, if necessary.**

None.

**8. Did the Mine Operator submit all the missing and/or irregular data (datum)?**

NA

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